

CATALYTIC OXIDATION REACTOR FOR GASEOUS MIXTURES

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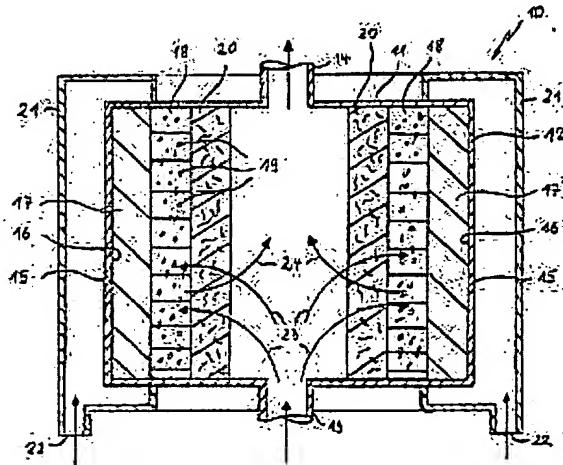
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Abstract of DE3729114

A catalytic oxidation reactor (10) for gaseous mixtures composed of oxygen and at least one combustible gas in contact therewith comprises a reactor (12) in communication with a coolant contained in a cooling element (21). A first gas-permeable layer (18) containing a catalyst (19) for the oxidation reaction is arranged in the reactor (12). On the side facing the gaseous mixture, the first layer (18) has a second gas-permeable layer (20) and on the other side a third layer (17) impermeable to gases and liquids and in thermal contact with the coolant. The reactor therefore operates on the countercurrent principle (arrows 23, 24).



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